

INTERNATIONAL INSTITUTE OF AGRICULTURE

INTERNATIONAL BULLETIN OF PLANT PROTECTION

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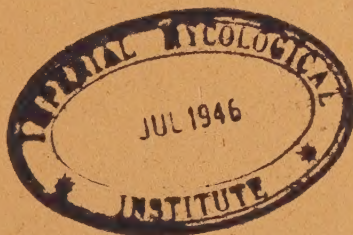
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ACTIVITY OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE

The International Institute of Agriculture continues its normal activities in spite of the unavoidable difficulties of the hour.

The organs of the Institute — Permanent Committee, Commissions and Bureaus — are going on with their tasks. The same can be said of the periodical publications and monographies which appear with the most absolute regularity.

Permanent Committee of the Institute. — The autumn session of the Permanent Committee has been called for 3rd October. The agenda includes a good number of questions dealing with the administrative and technical activities of the Institute.

In our next issue we will give a summary of the work accomplished at this session which will be attended by a large majority of the representatives of the adhering States.

IVth Session of the Committee of the International Forestry Center. — The IVth session of the Committee of the International Forestry Center will meet at Budapest from 22nd to 26th October. The agenda includes important administrative questions and the study of the sequel already given or to be given to the resolutions of the International Forestry Congress of Budapest (1936).

One of the meetings will be devoted to the problem of the reforestation of uncultivated land.

An account of this session will also appear in our next issue.

Relations of the Institute with the International Organisations. — The Institute is endeavouring to maintain as strict relations as possible with the international organisations which display their activity in the agricultural field or in sections connected with it.

The General Secretariat has addressed to the majority of the international organisations with which the Institute maintains permanent relations a circular letter accompanying the pamphlet which contains the text of the Resolutions adopted by the XVth General Assembly of the Institute. It contains also a first programme dealing with the questions on which a preliminary study should be accomplished in view of the work of reconstruction after the war in the fields of Agriculture and international Commerce.

By the same letter an appeal is made to the collaboration of these international organisations in order to establish a concrete line of works to be undertaken. They are therefore requested to express their opinion and wishes, to submit their propositions and suggestions and, in a general way to make their point of view clearly known together with their possibilities to cooperate in the proposed action.

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I consorzi di bonifica riuniti in Este nella loro storia, nelle opere, nei risultati, nel loro divenire. Venezia, Officine grafiche C. Ferrari, 1940. 75 p.

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INTERNATIONAL BULLETIN

OF PLANT PROTECTION

1940

No. 10

DISCOVERIES AND CURRENT EVENTS *

PALESTINE.

Diseases of Ornamental Plants. †

The following is a preliminary list of diseases occurring on ornamental plants in Palestine, as studied at the Division of Plant Pathology of the Agricultural Research Station, Rehovot, from 1923 to 1938. The author was assisted in the collection and determination of these diseases by Dr M. Chorin, Ing. G. Minz, Dr J. Perlberger and Dr F. Littauer, assistants at the above mentioned laboratory.

<i>ACACIA BAILEYANA</i> F. MUELL.	<i>Fusarium</i> sp.	Damping off.
<i>A. CYANOPHYLLA</i> LINDL.	<i>Diplodia</i> sp. <i>Pestalozzia</i> sp.	Leaf spot. Leaf spot.
<i>A. DECURRENS</i> WILLD.	<i>Fusarium</i> sp.	Damping off.
<i>A. LONGIFOLIA</i> WILLD.	<i>Alternaria</i> sp.	Leaf spot.
<i>A. LOPHANTHA</i> WILLD.	Chlorosis (non-parasitic). Leaf drop (non-parasitic).	
<i>A. SUAVEOLENS</i> WILLD.	Black tip (non-parasitic).	Leaves.
<i>ACACIA</i> sp.	<i>Fusarium</i> sp.	Root rot.
<i>ACALYPHA INDICA</i> LINN.	<i>Fusarium</i> sp. <i>Rhizoctonia solani</i> Kühn.	Root rot. Root rot.
<i>A. WILKESIANA</i> MUELL. ARG.	<i>Fusarium</i> sp. <i>Pestalozzia</i> sp. <i>Rhizoctonia solani</i> Kühn. <i>Sclerotium bataticola</i> Taub.	Collar and root rot. Leaf spot. Collar and root rot. Collar and root rot.

* Under this and the next heading the countries are arranged in French alphabetical order.

† Communication from the official correspondent of the Institute, Dr I. REICHERT, Chief Plant Pathologist, Division of Plant Pathology, Agricultural Research Station, Rehovot, Palestine.

<i>ACER NEGUNDO</i> LINN.	<i>Rhizoctonia solani</i> Kühn.	Collar rot.
<i>ACONITUM NAPELLUS</i> LINN.	<i>Fusarium</i> sp.	Root rot.
<i>AILANTHUS</i> sp.	<i>Rhizoctonia solani</i> Kühn.	Root rot; damping off.
<i>ALOE ARBORESCENS</i> MILL.	Hail spot.	
<i>ALOE</i> sp.	<i>Bacterium</i> sp. Hail spot.	Leaf rot.
<i>AMARANTHUS</i> sp.	<i>Fusarium</i> sp. <i>Pythium</i> sp. <i>Rhizoctonia solani</i> Kühn. <i>Sclerotium bataticola</i> Taub.	Root rot. Collar rot. Root rot. Root rot.
<i>AMARYLLIS</i> sp.	Leaf spot (undetermined).	
<i>AMPELOPSIS VEITCHII</i> VOSS.	Gum spot (undetermined). Dry leaf spot (undetermined).	Leaves.
<i>ANTIGONON</i> sp.	<i>Pythium</i> sp.	Root rot.
<i>ANTIRRHINUM MAJUS</i> LINN.	<i>Alternaria</i> sp. <i>Fusarium</i> sp. <i>Phoma</i> sp. <i>Puccinia antirrhini</i> Diet. et Holw. <i>Pythium</i> sp. <i>Rhizoctonia solani</i> Kühn. <i>Sclerotium bataticola</i> Taub. <i>Sclerotium rolfsii</i> Sacc. <i>Septoria antirrhini</i> Desm. Hail spot. <i>Heterodera marioni</i> (Conu) Goodey.	Leaf spot. Root rot; wilt. Leaf spot. Rust. Damping off. Root rot, collar and root rot. Collar and root rot. Stem and leaves. Root knot.
<i>ARALIA JAPONICA</i> THUNB.	<i>Fusarium</i> sp. <i>Sclerotium bataticola</i> Taub.	Root rot. Root rot.
<i>ARAUCARIA</i> sp.	<i>Alternaria</i> sp. <i>Bacterium</i> sp. <i>Pythium</i> ? Yellows (non-parasitic). Scorch (undetermined).	Twig and needle blight. Twig and needle blight. Twig blight. Twigs and needles. Twigs.
<i>ASCLEPIAS CURASSAVICA</i> LINN.	<i>Fusarium</i> sp. <i>Rhizoctonia solani</i> Kühn.*	Damping off. Damping off.

ASTER sp.	<i>Alternaria</i> sp.	Leaf spot.
	<i>Fusarium</i> sp.	Root rot; wilt; collar rot.
	<i>Rhizoctonia solani</i> Kühn.	Collar rot.
AUCUBA sp.	<i>Sclerotium bataticola</i> Taub.	Collar and root rot; root rot.
	<i>Gloeosporium</i> sp.	Anthraxnose on stem.
	<i>Sclerotium bataticola</i> Taub.	Root rot.
AZALEA sp.	<i>Bacterium</i> sp.	
BAUHINIA PURPUREA LINN.	<i>Rhizoctonia solani</i> Kühn.	Damping off.
BEGONIA sp.	<i>Alternaria</i> sp.	Leaf spot.
	<i>Bacterium</i> sp.	Leaf spot, leaf rot.
	<i>Fusarium</i> sp.	Bulb rot, leaf rot.
	<i>Rhizoctonia solani</i> Kühn.	Root rot.
	<i>Sclerotium bataticola</i> Taub.	Root rot.
	Leaf spot (undetermined).	
BELLIS PERENNIS LINN.	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
BIGNONIA sp.	Wither-tip (undetermined)	
BORRAGO OFFICINALIS LINN.	<i>Alternaria</i> sp.	Leaf spot.
BOUGAINVILLEA sp.	<i>Fusarium</i> sp.	Root rot.
	Blight (non-parasitic).	
	Leaf scorch (undetermined).	
BRACHYCHITON sp.	Gum spot (undetermined).	
	Leaf spot (undetermined).	
	Wither-tip (undetermined).	
BUDDLEIA sp.	Mosaic spots (undetermined).	Leaf spot.
CAESALPINA GILLIESII WALL.	<i>Fusarium</i> sp.	Root rot.
CAJANUS INDICUS SPRENG.	<i>Fusarium</i> sp.	Collar and root rot.
CALENDULA sp.	<i>Oidium</i> sp.	Mildew.
	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
CALOTROPIS PROCERA DRYAND	<i>Cercospora</i> sp.	Leaf spot.

<i>CAMELLIA</i> sp.	Leaf spot (non-parasitic).	
<i>CANAVALIA ENSIFORMIS</i> DC.	<i>Cercospora</i> sp.	Leaf spot.
<i>CARYOTA</i> sp.	<i>Pestalozzia</i> sp.	Leaf spot.
<i>CASSIA FLORIBUNDA</i> GRISEB.	<i>Ganoderma</i> sp.	Stem, collar and root rot, wood rot.
<i>CASTANEA VESCA</i> GAERTN.	Leaf scorch (undetermined).	
<i>CASUARINA</i> sp.	<i>Fusarium</i> sp. <i>Rhizoctonia solani</i> Kühn. <i>Sclerotium bataticola</i> Taub. Wither-tip (non-parasitic).	Wilt.
<i>CATALPA</i> sp.	<i>Peronospora</i> sp. <i>Sclerotium bataticola</i> Taub.	Downy mildew.
<i>CEIBA PENTANDRA</i> GAERTN.	<i>Fusarium</i> sp. <i>Phoma</i> sp.	Root rot. Root rot.
<i>CENTAUREA FLORIPLENA</i> .	<i>Sclerotinia sclerotiorum</i> (Lib.) Mass.	Stem dry rot.
<i>C. PALLESCENS</i> DELIBE.	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
<i>CEPHALOCEREUS SENILIS</i> PFEIFF.	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
<i>CERCIS SILIQUASTRUM</i> LINN.	<i>Fusarium</i> sp. <i>Pythium</i> sp. <i>Rhizoctonia solani</i> Kühn.	Root rot. Damping off. Damping off.
<i>CEREUS GRANDIFLORUS</i> MILL.	<i>Bacterium</i> sp. <i>Fusarium</i> sp.	Black collar rot. Collar rot.
<i>C. PITAJAYA</i> DC. var. <i>MONSTRUOSUS</i> .	<i>Fusarium</i> sp.	Collar rot.
<i>C. TUBEROSUS</i> PFEIFF.	<i>Bacterium</i> sp.	Collar soft rot.
<i>CHAMAEROPS EXCELSA</i> THUNB.	<i>Cladosporium</i> sp.	Leaf spot.
<i>CHAMAEROPS</i> sp.	<i>Rhizoctonia solani</i> Kühn. <i>Sclerotium bataticola</i> Taub. Leaf scorch (non-parasitic). <i>Heterodera marioni</i> (Cornu) Goodey.	Root rot. Root rot. Root knot.
<i>CHRYSANTHEMUM CINERARIAEFOLIUM</i> VIS.	<i>Fusarium</i> sp. <i>Rhizoctonia solani</i> Kühn.	Root rot; damping off. Root rot.

CHRYSANTHEMUM INDICUM LINN.	<i>Alternaria</i> sp.	Stem blight.
	<i>Fusarium</i> sp.	Stem blight.
CHRYSANTHEMUM sp.	<i>Cylindrosporium chrysanthemi</i> Ell. et Dearn.	Leaf spot.
	<i>Fusarium</i> sp.	Collar and root rot.
	<i>Puccinia chrysanthemi</i> Roz.	Rust.
	<i>Rhizoctonia solani</i> Kühn.	Collar and root rot.
	<i>Sclerotium bataticola</i> Taub.	Collar rot.
	Tip burn.	Seedling leaves.
CICER ARIETINUM LINN.	<i>Fusarium</i> sp.	Root rot.
	<i>Uromyces ciceris-arietini</i> (Grog.) Jacz. et Boy.	Rust.
CNICUS BENEDICTUS LINN.	<i>Rhizoctonia solani</i> Kühn.	Collar and root rot.
COCOS PLUMOSA HOOK.	<i>Alternaria</i> sp.	Leaf spot.
C. WEDDELLIANA WENDL.	<i>Alternaria</i> sp.	Leaf spot.
COFFEA ARABICA LINN.	<i>Alternaria</i> sp.	Leaf spot.
	<i>Gloeosporium coffeanum</i> Delacroix.	Leaf spot.
COLEUS sp.	<i>Phoma</i> sp.	Black stem spot.
	<i>Rhizoctonia solani</i> Kühn.	Stem and root rot.
COLUTEA ARBORESCENS LINN.	<i>Fusarium</i> sp.	Root rot.
	<i>Rhizoctonia solani</i> Kühn.	Root rot.
CORONILLA GLAUCA LINN.	<i>Fusarium</i> sp.	Root rot.
	<i>Pythium</i> sp.	Root rot.
	<i>Sclerotium bataticola</i> Taub.	Root rot.
CORYPHA AUSTRALIS R. BR.	<i>Phyllosticta</i> sp.	Leaf spot.
	White leaf spot, wither- tip (non-parasitic).	
	<i>Heterodera marioni</i> (Cor- nu) Goodey.	Root knot.
COTONEASTER FRANCHETI BOIS.	<i>Sclerotium bataticola</i> Taub.	Collar rot.
CRASSULA PSEUDOLYCOPODIOI- DES DINTER ET SCHINZ.	<i>Heterodera marioni</i> (Cor- nu) Goodey.	Root knot.
CUPRESSUS ARIZONICA GREENE.	<i>Fusarium</i> sp.	Damping off.

<i>CUPRESSUS MACROCARPA</i> HARTW.	<i>Fusarium</i> sp.	Root rot.
	<i>Verticillium</i> sp.	Wilt.
<i>C. SEMPERVIRENS</i> LINN.	<i>Alternaria</i> sp.	Damping off (associated with <i>Fusarium</i>).
	<i>Fusarium</i> sp.	Damping off and root rot.
	<i>Rhizoctonia solani</i> Kühn.	Root rot.
	<i>Sclerotium bataticola</i> Taub.	Collar and root rot.
	<i>Trichoderma</i> sp.	Damping off.
	Damping off (undetermined).	
	Drying of branches at their tips (undetermined).	
	Yellowing of branches (undetermined).	
<i>CYCAS REVOLUTA</i> THUNB.	<i>Phyllosticta</i> sp.	Leaf spot.
	<i>Pleospora</i> sp.	Leaf spot.
	Leaf spot (undetermined).	
<i>CYCLAMEN NEAPOLITANUM</i> TENORE.	<i>Heterodera marioni</i> (Cornu) Goodey.	Root-knot.
<i>DACTYLOCTENIUM AEGYPTIACUM</i> WILLD.	<i>Fusarium</i> sp.	Wilt.
	<i>Rhizoctonia solani</i> Kühn.	Root and stem rot.
	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
<i>DAHLIA VARIABILIS</i> DESF.	<i>Alternaria</i> sp.	Black leaf spot.
	<i>Bacterium</i> sp.	Tuber rot.
	<i>Fusarium</i> sp.	Wilt, tuber rot.
	<i>Macrosporium</i> sp.	Leaf spot.
	<i>Oidium</i> sp.	Mildew.
	<i>Rhizoctonia solani</i> Kühn.	Stem rot, wither-tip, dry rot of stems.
	<i>Sclerotinia</i> sp.	
	<i>Sclerotium bataticola</i> Taub.	Root rot.
	<i>Stemphylium</i> sp.	Black leaf spot.
	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
<i>DATURA</i> sp.	<i>Alternaria crassa</i> (Sacc.) Rand.	Leaf spot.
<i>DELPHINIUM</i> sp.	<i>Fusarium</i> sp.	Root and collar rot.
	<i>Rhizoctonia solani</i> Kühn.	Root rot.
	Yellow leaf discoloration (non-parasitic).	

<i>DERRIS ELLIPTICA</i> BENTH.	<i>Fusarium</i> sp.	Root rot.
<i>DEUTZIA GRACILIS</i> SIEB. ET ZUCC.	Leaf spot (undetermined).	
<i>DIANTHUS BARBATUS</i> LINN.	<i>Oidium</i> sp.	Mildew.
	<i>Sclerotium bataticola</i> Taub.	Root rot.
	<i>Uromyces</i> sp.	Rust.
<i>D. CARYOPHYLLUS</i> LINN.	<i>Alternaria dianthi</i> Stev. et Hall.	Leaf spot.
	Basidiomycetes.	Root rot.
	<i>Fusarium</i> sp.	Root rot, wilt.
	<i>Heterosporium echinulatum</i> (Berk.) Cke.	Leaf spot 'fairy ring'.
	<i>Oidium</i> sp.	Powdery mildew.
	<i>Phoma</i> sp.	
	<i>Phytophthora</i> sp.	Root rot.
	<i>Pleospora</i> sp.	Black stem spot.
	<i>Puccinia dianthi</i> DC.	Rust.
	<i>Rhizoctonia solani</i> Kühn.	Root rot, damping off.
	<i>Sclerotinia minor</i> Jagger.	Stem dry rot, root rot.
	<i>Sclerotium bataticola</i> Taub.	Root and stem rot; drying.
	<i>Sclerotium rolfsii</i> Sacc.	Root rot.
	<i>Septoria dianthi</i> Desm.	Leaf spot.
	<i>Uromyces caryophyllinus</i> (Schränk.) Wint.	Rust.
	Leaf and stem drying (undetermined).	
	Violet leaf spot (undetermined).	
	Wither-tip (non-parasitic).	
	Yellowing of leaves (undetermined).	
	Yellow leaf spot (undetermined).	
	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
<i>DIMORPHOTHECA</i> sp.	<i>Fusarium</i> sp.	Wilt.
<i>DILOTAXIS</i> sp.	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
<i>DODONEA VISCOSA</i> LINN.	Brown leaf spot (undetermined).	
	<i>Cuscuta monogyna</i> Vahl.	

<i>DORYALIS HEBECARPA</i> WARB.	Frost injury.	
<i>DRACAENA DRACO</i> LINN.	<i>Alternaria</i> sp.	Leaf spot.
	<i>Diplodiella</i> sp.	Leaf spot.
	<i>Phyllosticta</i> sp.	Leaf spot.
	Leaf spot (undetermined).	
<i>DURANTA PLUMIERI</i> JACQ.	<i>Pleospora</i> sp.	Blight.
<i>ECHEVERIA</i> sp.	White leaf spot (non-parasitic).	
<i>ECHINOCEREUS PROCUMBENS</i> LEM.	<i>Bacterium</i> sp.	Soft rot.
<i>ECHINOPSIS</i> sp.	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
<i>ERYTHRINA CORALLODENDRON</i> LINN.	<i>Oidium</i> sp.	Mildew.
<i>E. CRISTA-GALLI</i> LINN.	<i>Gloeosporium</i> sp.	Anthraxnose.
<i>EUCALYPTUS</i> sp.	<i>Alternaria</i> sp.	Black leaf spot.
	<i>Bacterium tumefaciens</i> EFS. et Town.	Crown gall.
	<i>Diplodia</i> sp.	
	<i>Fusarium</i> sp.	Rootlet rot.
	<i>Phoma</i> sp.	Leaf spot.
	<i>Rhizoctonia solani</i> Kühn.	Damping off.
	Dry leaf spot (undetermined).	
	Leaf spot (undetermined).	
	Red leaf spot (undetermined).	
	Yellow leaf discoloration (non-parasitic).	
	Yellow leaf discoloration (undetermined).	
<i>EUPHORBIA BUBALINA</i> BOISS.	<i>Fusarium</i> sp.	Root rot, wilt.
<i>E. GLOBOSA</i> SIMS.	<i>Fusarium</i> sp.	Collar rot.
	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
<i>E. SPLENDENS</i> BOJER	<i>Fusarium</i> sp.	Collar rot.
<i>EUPHORBIA</i> sp.	<i>Bacterium</i> sp.	Collar and root rot.
	<i>Fusarium</i> sp.	Die-back; collar rot.

<i>EUONYMUS JAPONICUS</i> LINN.	<i>Alternaria</i> sp. White leaf spot (non-parasitic). Leaf spot (undetermined).	Leaf spot.
<i>FIGUS ELASTICA</i> ROXB.	<i>Fusarium</i> sp. <i>Gloeosporium</i> sp. <i>Rhizoctonia solani</i> Kühn. <i>Sclerotium bataticola</i> Taub. Leaf spot (non-parasitic). Leaf spot (undetermined). Wither-tip (non-parasitic).	Root rot; collar rot. Leaf spot. Collar rot. Collar rot.
<i>F. MACROPHYLLA</i> DESF.	Leaf scorch (undetermined). Leaf spot (undetermined).	
<i>F. NITIDA</i> THUNB.	<i>Diplodia</i> sp. <i>Fusarium</i> sp. <i>Rhizoctonia solani</i> Kühn. <i>Sclerotium bataticola</i> Taub. Blight (non-parasitic).	Collar and root rot. Root rot. Collar and root rot. Collar and root rot.
<i>FIGUS</i> sp.	<i>Alternaria</i> sp. <i>Phyllosticta</i> sp. Leaf discoloration (non-parasitic). Leaf scorch (non-parasitic). Leaf spot (undetermined).	Leaf spot. Leaf spot.
<i>FOURCROYA GIGANTEA</i> VENT.	Hail spot.	
<i>F. FRAXINUS OXYCARPA</i> WILLD.	<i>Fusarium</i> sp.	Damping off.
<i>FUCHSIA</i> sp.	<i>Rhizoctonia solani</i> Kühn. Leaf scorch (non-parasitic).	Collar and root rot.
<i>GAILLARDIA</i> sp.	<i>Fusarium</i> sp. <i>Rhizoctonia solani</i> Kühn.	Collar rot. Collar rot.
<i>GARDENIA</i> sp.	<i>Heterodera marioni</i> (Connu) Goodey.	Root knot.
<i>GENISTA SPHACELATA</i> DECNE.	<i>Fusarium</i> sp.	Wilt.

GERANIUM sp.	<i>Alternaria</i> sp.	Black leaf spot.
	<i>Diplodia</i> sp.	Black stem rot.
	* <i>Fusarium</i> sp.	Wilt.
	<i>Sclerotium bataticola</i> Taub.	Collar and root rot.
	Wither-tip (non-parasitic).	On leaves.
GLADIOLUS sp.	<i>Alternaria</i> sp.	Leaf spot.
	<i>Bacterium</i> sp.	Soft rot of corms.
	<i>Cladosporium</i> sp.	Leaf spot.
	<i>Fusarium</i> sp.	Root rot.
GOMPHRENA sp.	<i>Alternaria</i> sp.	Leaf spot.
	Dry yellow leaf spot (non-parasitic).	
GRATIOLA OFFICINALIS LINN.	?	Damping off.
GREVILLEA ROBUSTA CUNN.	<i>Bacterium</i> sp.	Damping off.
	<i>Fusarium</i> sp.	Wilt; damping off.
	<i>Rhizoctonia</i> sp.	Collar rot.
	?	Rust on leaves.
	Wither-tip (non-parasitic).	
	Yellowing and drying of leaves. (non-parasitic).	
	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
GYPSOPHILA sp.	<i>Macrosporium</i> sp.	Leaf spot.
	<i>Cuscuta</i> sp.	
HELIANTHUS CUCUMERIFOLIUS TOW. ET GRAY.	<i>Sclerotium bataticola</i> Taub.	Rootlet rot.
HELIOTROPIMUM EUROPAEUM LINN.	<i>Cercospora</i> sp.	Leaf spot.
H. PERUVIANUM LINN.	Wilting and drying of leaves (undetermined). Leaf scorch (undetermined).	
HIBISCUS MUTABILIS LINN.	Leaf scorch (undetermined).	
	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
H. ROSA-SINENSIS LINN.	<i>Fusarium</i> sp.	Root rot.
	<i>Macrosporium</i> sp.	Leaf spot.
	<i>Phyllosticta</i> sp.	Leaf spot.
	<i>Pleospora</i> sp.	Leaf spot.

<i>HIBISCUS</i> sp.	<i>Fusarium</i> sp.	Stem bark rot; rot of cuttings.
<i>HOYA CARNOSA</i> R. BR.	<i>Gloeosporium</i> sp. Leaf and fruit drying (non-parasitic).	Anthracnose on leaves.
<i>HYOSCYAMUS</i> sp.	Collar and root rot (undetermined).	
<i>IMPATIENS BALSAMINA</i> LIN.	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
<i>IPOMOEA DIGITATA</i> LINN.	<i>Oidium</i> sp. Drying of the leaves (non-parasitic).	Mildew. (Winds).
<i>IPOMOEA</i> sp.	<i>Heterodera marioni</i> (Cornu) Goodey.	Root knot.
<i>IRIS BISMARCKIANA</i> DAMMAN.	<i>Septoria</i> sp.	Leaf spot.
<i>I. PALLIDA</i> LAM.	<i>Puccinia iridis</i> (DC.) Rabh.	Rust.
<i>IRIS</i> sp.	<i>Alternaria</i> sp. <i>Fusarium</i> sp. <i>Heterodera marioni</i> (Cornu) Goodey.	Leaf spot. Wilt. Root knot.
<i>JARACANDA</i> sp.	<i>Alternaria</i> sp. <i>Fusarium</i> sp. <i>Phoma</i> sp. <i>Rhizoctonia solani</i> Kühn. <i>Sclerotium bataticola</i> Taub. Blight of branches (non-parasitic). Drying of seedlings (non-parasitic). Withering of leaves, leaf scorch (non-parasitic).	Damping off. Damping off. Damping off. Root rot. Damping off; root rot.
<i>JASMINUM</i> sp.	<i>Phyllosticta</i> sp. Drying of cuttings (non-parasitic). <i>Heterodera marioni</i> (Cornu) Goodey.	Leaf spot. Root knot.

<i>KOCHIA</i> sp.	<i>Fusarium</i> sp.	Collar and root rot (damping off).
	<i>Rhizoctonia solani</i> Kühn.	Damping off.
<i>LATANIA BORBONICA</i> LAM.	<i>Colletotrichum</i> sp.	Leaf spot.
	<i>Heterodera marioni</i> (Connu) Goodey.	Root knot.
<i>LATHYRUS ODORATUS</i> LINN.	<i>Uromyces</i> sp.	Rust.
<i>L. SATIVUS</i> LINN.	<i>Oidium</i> sp.	Mildew.
<i>LAURUS INDICA</i> LINN.	Gum spot (non-parasitic).	
(to be continued).		

LEGISLATIVE AND ADMINISTRATIVE MEASURES

Germany. — An Ordinance of April 2, 1940 by the deputy of the Minister of Agriculture dealing with questions referring to seeds, revises the regulations relative to the trade in potatoes [see this *Bulletin*, 1939, No. 5, pp. 110-111], to conform them to the provisions taken by the Railway Department on November 30, 1939, regarding the time allowed in unloading the trucks. (*Amtliche Pflanzenschutzbestimmungen*, Berlin, 1. Mai 1940, Bd. XII, Nr. 3, S. 54).

*** An Ordinance of April 3, 1940 by the deputy of the Minister of Agriculture dealing with questions referring to seeds, revises the regulations of September 16, 1937 relative to potato varieties resistant to wart disease [*Synchytrium endobioticum*: see this *Bulletin*, 1938, No. 2, p. 28].

Farms where in 1939 the potato varieties 'Allerfrüheste Gelbe' and 'Centifolia' were recognized as certified plants, may also obtain authorization for these varieties in 1940, but only for an area not exceeding that cultivated in 1939. (*Ibid.*).

*** The new list of the communes infested with grape phylloxera [*Dactylosphaera vitifoliae*] and those suspected or in danger of being infested has been published in the *Deutscher Reichsanzeiger und Preussischer Staatsanzeiger*, No. 78 of April 3, 1940. (*Nachrichtenblatt für den Deutschen Pflanzenschutzdienst*, Berlin, Anfang Mai 1940, 20. Jahrg., Nr. 5, S. 27).

*** A communication (No. 82 of April 10, 1940) of the Corporation of Agriculture gives notification of certain restrictions applied to trade in insecticides and fungicides. In the case of some chemical products, only a certain percentage of the quantity sold in 1939 can be supplied to customers: 30 per cent. for copper sulphate and borax; 70 per cent. for preparations made with copper, and for those containing copper in combination or in mixture with lime, arsenic, lead and pyrethrum; 75 per cent. for sulphur used for treating vines.

These products may only be sold to customers who had bought them in 1939. No customer may obtain more than the quantity allotted him on the basis of the amount purchased in 1939 and according to the percentage established. (*Ibid.*).

** The eighth Decree of May 21, 1940, relative to the Colorado beetle [*Leptinotarsa decemlineata*] slightly modifies the seventh Decree [see this *Bulletin*, 1939, No. 7, pp. 157-159].

An appendix to this Decree lays down the revised delimitation of the control zone ('Überwachungsgebiet'), necessary in view of the advance in invasion. (*Reichsgesetzblatt*, Teil I, Berlin, 22. Mai 1940, Nr. 90, S. 793-794).

England and Wales. — By the Rabbits Order, 1939, dated October 12, 1939, where the War Agricultural Executive Committee is satisfied that injury to crops or trees or wastage of pasturage is being caused or is likely to be caused by rabbits, the Committee may by order authorize the killing and taking of the rabbits. (*Statutory Rules and Orders 1939*, No. 1493, London, 1939, 2 pp.).

Scotland. — An Order in Council, dated October 19, 1939, adds Regulations 63-A to the Defence Regulations, 1939. This Regulation contains provision regarding damage by deer, hares and rabbits to crops in Scotland. (*Statutory Rules and Orders 1939* No $\frac{1465}{S. 105}$, London, 1939, 2 pp.).

** The Hares and Rabbits (Scotland) Order, 1939, dated November 2, 1939, regards the killing and taking of hares and rabbits for the purpose of preventing damage to crops, trees, pasturage, fences, banks, or works. (*Statutory Rules and Orders 1939*, No $\frac{1654}{S. 121}$, London, 1939, 2 pp.).

** The Deer (Scotland) Order, 1939, dated November 2, 1939, authorises the killing and taking of deer injurious to crops, trees, pasturage, fences, banks or works in Scotland. (*Statutory Rules and Orders 1939*, No $\frac{1655}{S. 122}$, London, 1939, 2 pp.).

Spain. — 'Orden' of June 10, 1940 specifies the measures to be adopted in locust control. (*Boletín Oficial del Estado*, Madrid, 12 de junio de 1940, año V, núm. 164, págs. 4055 y 4056).

** By 'Orden' of June 22, 1940, all consignments of living plants and parts of these plants from continental Spain and the Balearic and Canary Islands, intended for export to England and Scotland must have been inspected and be accompanied by a phytosanitary certificate of the country of origin. (*Ibid.*, 27 de junio de 1940, núm. 179, pág. 4405).

United States of America. — By an Act approved on April 26, 1940 the Secretary of Agriculture is authorized in co-operation with such agencies as he may deem necessary to use such funds as have been, or may hereafter be, made available for the purpose of controlling white pine blister rust [*Cronartium ribicola*], by preventing the spread to, and eliminating white pine blister rust from, all forest lands, irrespective of the ownership thereof, when in the judgment of the Secretary of Agriculture the use of such funds on such lands is necessary in the control of the white pine blister rust. ([*Public — No. 486 — 76th Congress*]. [*Chapter 159 — 3d Session*]. [*H. R. 3406*]. *An Act for forest protection against the white pine blister rust, and for other purposes*. [Washington, D. C., 1940], 1 p.).

Italy. — According to Ministerial Decree of January 27, 1940 the proprietors and occupiers of cotton lands in Sicily are obliged to destroy for phytosanitary purposes all stalks and bolls left on the fields, not later than March 31 each year. (*Bollettino Ufficiale del Ministero dell'Agricoltura e delle Foreste*, Roma, 21 febbraio 1940, anno XII, n. 6, pp. 206-207).

*** A Decree of the Minister of the Interior, dated July 20, 1938 rendered compulsory the inclusion of agricultural parasitocides in the list of medicinal and surgical remedies subject to registration, by virtue of Article 189 of the Health Laws.

By Circular No. 476 of April 4, 1940, the Minister of Agriculture and Forests communicates that, in the application of the aforesaid Ministerial Decree, an agreement has been reached between the Ministry of Agriculture and Forests and the Ministry of the Interior, by virtue of which the registration of agricultural parasitocides is contingent on the favourable result of a double government testing of these products, that is:—

- (1) checking the chemical composition of the preparation with the formula supplied by the manufacturer in presenting his application;
- (2) testing the efficacy of the preparation (as regards its effect on the plant pests against which the product is specially recommended by the manufacturers) and its effect on plant growth.

The first of these tests is carried out at the Institute of Public Health (to which applications for registration should be addressed) while the second is entrusted to the Ministry of Agriculture and Forests and is delegated to the different Institutes of the Ministry, and to which the Circular in question indicates the instructions to be followed*.

*** By Ministerial Decree of April 5, 1940, the control of the cockchafer (*Melolontha melolontha*), by collecting the adults, has been made compulsory in the province of Belluno during 1940. (*Bollettino Ufficiale del Ministero dell'Agricoltura e delle Foreste*, 21 aprile-1º maggio 1940, nn. 12-13, pp. 589-590).

* Communication from the Ministry of Agriculture and Forests, Rome, Italy.

*** A Ministerial Decree of May 11, 1940 authorizes the hunting and capture of wild rabbits, declared noxious animals, in the Province of Novara. (*Gazzetta Ufficiale del Regno d'Italia*, Roma, 20 maggio 1940, anno 81^o, n. 117, p. 1831).

*** Royal Decree No. 757 of May 13, 1940 establishes the regulations for the application of the Royal Decree-Law No. 1622 of September 5, 1938 [see this *Bulletin*, 1939, No. 2, pp. 32-34] converted into Law by Law No. 156 of January 5, 1939 [see this *Bulletin*, 1939, No. 5, p. 112] relative to measures on the sanitary protection of fruit plants. (*Ibid.*, 9 luglio 1940, n. 159, pp. 2508-2514).

** Law No. 835 of May 30, 1940 ratifies the Italian-German Agreement relative to frontier trade stipulated on February 24, 1940 at Rome.

According to Article 13 of this Agreement, the interdiction and restrictions of import and export, regarding the protection of crops against diseases, pests and other parasites, remain in force, in as far as these measures are applicable to all countries or to countries in identical conditions. (*Ibid.*, 18 luglio 1940, n. 167, pp. 2642-2647).

** A Ministerial Decree of June 19, 1940 authorizes hunting and capture of wild rabbits, declared pests in the Isle of Gorgona. (*Bollettino Ufficiale del Ministero dell'Agricoltura e delle Foreste*, 11 luglio 1940, n. 20, pp. 1064-1065).

** A Ministerial Decree of June 27, 1940 opens a prize competition for the industrial cultivation in 1941 of pyrethrum [*Chrysanthemum cinerariaefolium*] in the Provinces of Pola, Zara, Reggio di Calabria, Cosenza and Sassari. (*Gazzetta Ufficiale del Regno d'Italia*, 2 agosto 1940, n. 180, pp. 2919-2920).

** Ministerial Decree of June 30, 1940 abrogates the Ministerial Decree of March 30, 1940 [see this *Bulletin*, 1940, No. 9, p. 167] regarding the compulsory control of the olive fly [*Dacus* (*Daculus*) *oleae*] in the Provinces of Cagliari, Nuoro and Sassari.

For the year 1940, this new Ministerial Decree on compulsory control by means of arsenical sprays only refers to the Province of Sassari. (*Bollettino Ufficiale del Ministero dell'Agricoltura e delle Foreste*, 11 luglio 1940, n. 20, pp. 1061-1063).

Kenya (Colony and Protectorate of). — By Government Notice No. 127 of February 3, 1940, Government Notice No. 687 of September 2, 1937 [see this *Bulletin*, 1938, No. 4, p. 82] has been amended by adding to the First Schedule thereto, under the heading 'Diseases', the following parasites: *Bacterium tabacum*, *Bact. angulatum*, *Cercospora nicotianae*, and by adding to the Second Schedule thereto, under the heading 'Insect Pests', the following insect pests:

Phthorimaea heliopa, *Bemisia* spp. (Colony and Protectorate of Kenya. *Official Gazette Supplement. Proclamations, Rules and Regulations, 1940. Supplement No. 9 (Proclamations, Rules and Regulations No. 7)*, Nairobi, February 6, 1940, p. 102).

Morocco (French Zone of). — An Order of April 5, 1940 authorizes the destruction of rabbits causing considerable damage to crops and plantations in some zones of the civil administrative area of Sefrou, (Fez). (*Bulletin Officiel*, Rabat, 19 avril 1940, XXIX^e année, n° 1434, p. 400).

* * * An Order of May 1, 1940 authorizes the destruction of rabbits causing considerable damage to the crops and plantations in certain zones of the civil administrative area of Meknès-banlieue (environs). (*Ibid.*, 17 mai 1940, n° 1438, p. 482).

Portugal. — 'Portaria' No. 9:527 of May 14, 1940 declares control of the following parasites compulsory: —

(a) in the 'concelho' of Coimbra: *Iridomyrmex humilis*, *Pseudococcus citri* and other scale insects, *Phytomonas syringae* and *Phytophthora hibernalis*, harmful to citrus; *Dacus oleae* and *Gloeosporium olivarum*, harmful to olive plants.

(b) in the 'concelho' de Lourinhã: *Carpocapsa* [*Cydia*] *pomonella*, *Fusicladium pirinum* and other parasites of Rosaceae. (*Diário do Governo*, Lisboa, 14 de maio de 1940, I série, núm. 111, pág. 590).

Rumania. — Ministerial Decree No. 8.218, dated May 2, 1940, modifies the toxic content of the fungicides authorized by the Ministry of Agriculture and Domains for dry disinfection of seeds. (*Monitorul Oficial*, București, 8 mai 1940, anul CVIII, nr. 105, pag. 2172-2173).

Union of South Africa* — By Proclamation No. 48 of March 4, 1940, the Schedule to Proclamation No. 286 of 1936, as amended by Proclamation No. 155 of 1939 is amended by the deletion of sub-paragraph (c) of paragraph (2) of clause 4 [see this *Bulletin*, 1940, No. 1, p. 11].

Uruguay. — By Decree No. 214/040 of April 11, 1940, the scale insect *Epidiaspis pyricola* [*Diaspis leperii*] is declared a pest of national agriculture. (*Diario Oficial de la República Oriental del Uruguay*, Montevideo, 24 de abril de 1940, tomo 1939, núm. 10085, pág. 125-A).

* Communication from the Department of Agriculture and Forestry, Pretoria, Union of South Africa to the International Institute of Agriculture.

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